

ABSTRACT

An imaging system includes a photoreceptor section for generating an electric signal responsive to luminosity of an object, an amplifier section for amplifying a received optical signal, a plurality of memory sections for storing amplified electric signals as current signals, a load section for converting current outputs of said memory sections to voltages, an arithmetic section for operating an output signal from said load section, an output section for externally outputting a result of the operation, and a drive control section for controlling driving of the respective sections. A reference signal level stored in one of the memory section is compared with luminosity of an object that is stored in the other memory section while progressing integration thereof with time, and the luminosity of the object is AD-converted based on the period of time required for the luminosity signal to exceed the reference signal.